

SVIRIDOV, Yu.A. Method of increasing control quality of thermotechnical parameters of continuous action units. Priborostroenie no.12:30-31 D '64.

(MIRA 18:3)

CIA-RDP86-00513R001654130011-9" APPROVED FOR RELEASE: 08/31/2001

SVIRIDOV, Yuriy Aleksandrovich

[Automation of heating furnaces] Avtomatizatsiia nagre[Automation of heating furnaces] Avtomatizatsiia nagrevatel'nykh pechei. Moskva, Metallurgiia, 1965. 138 p.
(MIRA 18:3)

SVIRIDOV, Yu. B.; SOKOLIK, A. S.; VOINOV, A. N.

"Introduction and Table of Contents for the Article, "The Influence of Chemical and Turbulent Factors on the Combustion Process under Motor Conditions," Isvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh Nauk, No 12, 1949.

Translation- W-13951, 27 Sep 50

SVIRIDOV, YU. B., SOKOLIK, A. S., VOYNOV, A. N.

Gas and Oil Engines

Problems of combustion phases in engines. Izv. AN SSSR Otd. tekh. nauk no. 4, 1952.

Monthly List of Russian Accessions. Library of Congress, November 1952. Unclassified.

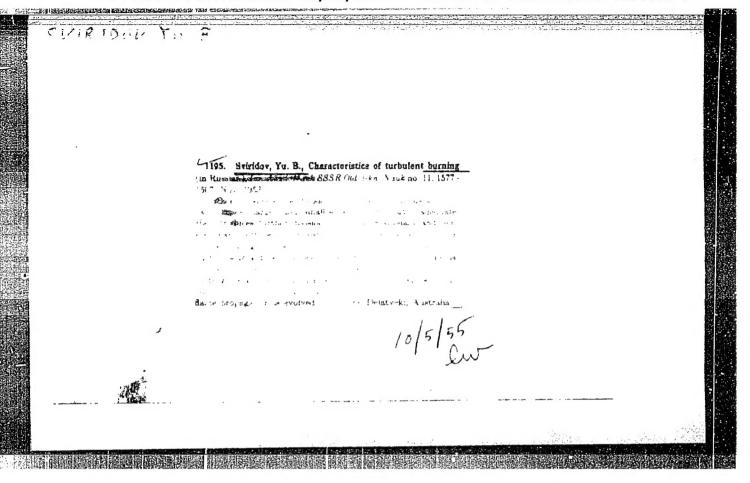
SOKOLIK, A.S.; VOINOV, A.N.; SVIRIDOV, Yu.B. Problem concerning combustion phases in an engine. Izv.AN SSSR Otd.tekh. nauk no.5:783-786 My '53. (MLR. 6:8)

(Gas and oil engines)

SOKOLIK, A.S.; VOINOV, A.H.; SVIRIDOV, Yu.B.

Editorial. Discussing A.S.Sokolik's, A.N.Voinov's and Yu.B.Sviridov's article "Effect of chemical factor and of the factor of turbulence on the combustion process in an engine." Izv.AN SSSR Otd.tekh.nauk no.5:786- (MLRA 6:8)

(Gas and oil engine) (Sokolik, A.S.) (Voinov, A.N.) (Sviridov, Iu.B.)



GENKIN, K.I.; SVIRIDOV, Yu.B.; KHMEL'NITSKIY, A.P., otvetstvennyy redaktor; KLENNIKOV, B.M., redaktor izdatel'stva; MOSKVICHEVA, N.I., tekhnicheskiy redaktor

[Internal combustion piston engines; proceedings of a conference on piston engines] Porshnevye dvigateli vnutrennego sgoraniia; trudy konferentsii po porshnevym dvigateliam. Moskva, 1956. 352 o.

(MLRA 9:9)

1. Akademiya nauk SSSR. Laboratoriya dvigateley. (Gas and oil engines)

The company of the control of the variation of the control of the control of the variation of the control of the control of the control of the variation of
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STECHKIN, B.S., akademik; MIKHAYLOV, A.I., professor, doktor tekhnicheskikh nauk; SVIRIDOV, Yo. R., kandidat tekhnicheskikh nauk.

On the occasion of the eightieth birthday of Nikolai Romanovich Briling, corresponding member of the Academy of Sciences of the U.S.S.R. Trudy Iab.dvig. no.3:3-8 '57. (MIRA 10:7) (Briling, Nikolai Romanovich, 1876-)

SVIRIDOV, Yu.B., kandidat tekhnicheskikh nauk.

Thermodynamic analysis of the combustion process in engines with spark ignition. Trudy Lab.dvig. no.3:164-193 '57. (MLRA 10:7)

(Gas and oil engines)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654130011-9

	J 200/2543	<i>J</i> 1		i T.A. Frusakova; Coal Sciences, N.N. O. B. Sviridov, Rogineer, and		Part I is devoted and to theoretical transfer of the flow and to the flow and to the flow and th	idov, Develop- y3 r T-miA, i air-coled	Ignition in 108 Igno-pilot Ixperimental ind by for-	Friction of Parts in the 124 of type GAZ-20 were for the USR Andewy of Akromobile Fint. Agruphs. Tetts were frare are 4 references:	operating for Establish- lined in 137 lined in ens- he unifus- n various- duction, con-	STIGATIONS	Econtationary 167 168 equations truction and suthor rement of high	lating the cof the cof the cof the cof the cof the comments with the comments of the comments	
	PHASE I MOOK RIPLOITATION	1. Laboratoriya dvigateley	Teoriys, konstruktsiya, reachet i ispytaniye dvigsteley vmutrennego agoraniya (Theory, Design, Calculation, and Testing of Internat Combustion Motors) Mascow, Itdvo AN 838N, 1958. 174 p. (Series Ites Trudy, vyp. 4) Errata alip inserted. 3,000 copies printed.	of Publishing House: V.M. Elennikov; Tech. Ed.: T.A. Frusskovs; Editorial Board: M.D. Agashav, Doctor of Technical Sciences, N.M. Zagryzkin, Candidate of Technical Sciences, Tu. B. Sviridov, Gandidate of Technical Sciences, S.Z. Exrances, Engineer, and E.G. Yevgrafov, Engineer.	UNFOGE: This book is intended for workers of scientific research institutes, students of schools of higher education (wizes), desain bureaus, and to premote exchange of experimental information on the thermodynamics of internal combustion engines.	FRAGE: This collection consists of 14 articles based mainly on research work done by the author in 1955-1956. Fart I is devoted to working processes in gas turbine over plants and to theoreti-defined and experimental work connected with investigation of the flowed masses. Part II contains articles on the investigation of processes in piecon engines. Fart III deals with the manurement of high featuratures of gases. The collection is number 4 of the flowestions of the Engine Laboratory of the Academy of Sciences, USSSS. No personalities are embined. There are no references.	10. Englinitator, P. [decessed], and Th. B. Sviridov, Development of Air-Cooled Engines in GrecheslowEnder (T-87, T-Th. Partie, P-118, P-212, T-500, T-503, T-500, S. Cooled engine are given. Elector air cooling systems are explained at some leaguh.	11. Strindov, Nu. B., and B.A. Zhrav. Flame-pilot Ignition in fine strictle is concerned with the comparison of flame-pilot ignition and normal ignition. A diagram of the experimental assembly is given. Results are shown on graphs and by for- mals. There are 4 Soviet references.	12. Mailipar, B.M., and R.F. dayrilar. Friction of Parts in the Faten Component of the duk-26 Mightnes of type daz-20 were investigated in the Engine Laboratory of the USSM dandary of Estence in cooperation with the Corinty Automobile Flant. Bats are given in the form of tables and graphs. Tests were made to improve Arture engine design. There are A references:	13. Sharmor, E.A. Unditiontion of Transport Engines Operating on Farious Types of Pusi. Fart II. Justification for Establish-fact United Engine Families. Fais article is the second part of an article published in Fredy laboratorial dvightleys, Wr. 3. On the basis of the analyses in this article the anthor continues that the unification of engines of various powers and operating on various vasions is indicated from the point of tiew of production, convenience in operation and general econour.	MENTHOD AND APPARATOS FOR INVESTIGATIONS	18. Jagryarkin, M.M., and R.M. Bygeles. Nethod of Monstationary Measurement of Eigh Temperatures of Gasse The author defines temperature ansurvaent, deduces equations of the ideal curre of beating, describes the construction and experiental verification of the instrument. The author escuciates that the method of nonstationary measurement of high	Semperatures is based on the possibility of calculating the first semperature of a gas by the temperature curve of the flow indicated by a thermocouple.	
	20(1,4)	Akademiya nauk SSSR.	Teoriya, konstruktai agorantya (Theory Combustion Notora Ita: Trudy, vyp.	Ed. of Publishing H Editorial Board: Zagrazkin, Cand Candidate of Tec E.G. Yevgrafor,	FUNDOR: This book institutes, gtud sign bureaus, an	COTENAGE: This colored to work do to working proceed to working proceed to working proceed to working the working the working the working to working the wo	10. Enstinitation of Aly-Cooled Descriptions and T-118, T-912, T-8218,	il. Swiridow, Ym. Jamall Michael The article is of ignition and nor assembly is give miles.	12. Maillest, B.M. Piston Component of Mechanical loses Investigated in Assert an coope Barare given i and to inforce Sales are given i	13. Sharmor, K.A. en Various Types of fine Briffed Engine fine article is fredy laboratori lysis in this art tion of engines fress is indicat vestence is open	PARE TIT.	18. Zagrzazion M. Measuwent of Elgi Fre suthor defin of the ideal cur experimental ver ecocludes that t	temperatures is true temperature flow indicated by	
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SVIRIDOV, Yu.B.; ZUYEV, B.A.

Jet ignition in light engines. Trudy Lab.dvig. no.4:108-123 '58.

(MIRA 12:11)

(Gas and oil engines—Ignition)

SOV/24-58-4-27/39

AUTHORS: Ryabov, D. I. and Sviridov, Yu. B. (Moscow)

TITLE: Investigation of Some Fundamentals of Combustion of Atomised Motor Fuels (Issledovaniye nekotorykh

osobennostey goreniya raspylennykh motornykh topliv)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 4, pp 133-137 (USSR)

ABSTRACT: The paper is a continuation of Sviridov's previous work (Refs 3 and 4), who (Ref 3) suggested that there are three types of combustion of atomised fuel, and the present experiments were carried out to test this suggestion. The apparatus (Fig 1) consisted of a diesel cylinder with subsidiary equipment enabling the initial temperature and air pressure to be accurately regulated. Measurements were made with the aid of a precision manometer for measuring the initial pressure, an optical indicator for recording time, pump revolutions and duration of fuel injection, and special thermocouples to indicate the temperature field in the combustion chamber and the air temperature before ignition. Diesel fuel, tractor kerosene and aviation benzine were all studied.

Cardl/2 Curves are given showing the variation of ignition retardation and duration of combustion for different

SOV/24-58-4-27/39
Investigation of Some Fundamentals of Combustion of Atomised Motor Fuels

mixtures and pressures. It is concluded (1) that at low temperatures ignition has a chemical character and combustion consists of the propagation of a "normal" flame; (2) at high temperatures, ignition is determined by a mixing process and combustion by the propagation of a diffusion flame; (3) at medium temperatures with retarded ignition, a rapid "explosive" combustion occurs. Thanks are expressed to N. R. Briling for supervision. There are 9 figures, 1 table and 4 Soviet references.

SUBMITTED: September 2, 1957

Card 2/2

Sviridov, Yu. B., Candidate of

sov/30-58-9-44/51

AUTHOR:

Technical Sciences

TITLE:

Combustion and Formation of the Mixture in Diesel Engines (Sgoraniye i smeseobrazovaniye v dizelyakh) Conference

in Moscow (Konferentsiya v Moskve)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 9, pp. 115 - 117 (USSR)

ABSTRACT:

The Laboratoriya dvigateley Akademii nauk SSSR (Engine Laboratory of the AS USSR) convened a conference which took place from June 10 to June 12. Apart from Soviet scientists from various cities of the USSR scientists from China, the German Democratic Republic and Czechoslovakia participated in the conference. Theoretical, experimental and methodical problems were treated. The following reports were delivered:

I.I. Gershman, Ye.I.Gulin spoke about the influence of

spraying on the process of combustion . V.Ya. Basevich on the empiric law of combustion of fuel drops in connection with spraying in the air current. Yu.B.Sviridov, D.I.Ryabov recommended a new diffusion kinetical model for the ingnition and combustion of

sprayed fuel.

Card 1/4

Combustion and Formation of the Mixture in Diesel Engines. SOV/30-58-9-44/51 Conference in Moscow

A.N. Voinov spoke about self-ignition of homogeneous mixtures. R.V.Mokhov about the influence of chemical admixtures to the fuel on retarded ignition in the Diesel engine. (Czechoslovakian scientist) A.S.Sokolik, O.A. Machalicky reported on the physico-chemical basis of the so-called M-process in Diesel engines. N.R.Briling on an improvement of the stroke of Diesel engines by the construction of motors with short stroke. A.S. Sokolik, Ye.S. Semenov dealt with the investigation of the working cycle in the cylinder of the engine by means of a compensated thermo-anemometer. M.S.Khovakh investigated the influence of air turbulences on the torch formation of the fuel in the case of injection by means of the kinematographical method. V.Ye. Mazing spoke about screening of the intake valve. B.S. Stechkin about heat production in the engine and its influence on the stroke. I.I. Vibe, N.K. Arslanov, Z.M. Minkin, K.I. Genkin and others reported on the problem mentioned by Stechkin. A.S.Sokolik, V.P.Karpov dealt with the antechamber torch

Card 2/4

Combustion and Formation of the Mixture in Diesel Engines. Conference in Moscow

SOV/30-58-9-44/51

ignition as basis of a new type of engines.

V.N.Svobodov recommended a new method of controlling the process of combustion in the Diesel engine.

Films about the process of combustion were shown which were produced by M.D.Apashev in the Laboratoriya dvigateley (Engine Laboratory). The following items were regarded as the principle trands in the development of Diesel engines: increase of the power output per liter of the engine by means of a supercharger, increase of the number of revolutions as well as fuel concentration. On the occasion of the 100th anniversary of Rudolf Diesel (Rudol'f Dizel) I.A.Men'shikov spoke about Diesel's life and work.

Card 3/4

KALABIN, Vitaliy Pavlovich, prof., doktor tekhn.nauk; SVIRIDOV, Yu.B., kand.tekhn.nauk, retsenzent; SOROKO-NOVITSKIY, V.I., prof., red.; GEILER, I.Yu., red.izd-va; EL'KIND, V.D., tekhn.red.

[Thermal processes in internal combustion engines] Teplovye protsessy dvigatelei vnutrennego sgoraniia. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry, 1959. 439 p. (MIRA 12:11) (Gas and oil engines)

STECHKIN, B.S., akademik, glavnyy red.; SVIRIDOV, Yu.B., zam.otv.red.;
APASHEV, M.D., red.; BRILING, N.R., red.; VASIL'YEV, B.N., red.;
VOINOV, A.N., red.; ZAGRYAZKIN, N.H., red.; GORSHKOV, G.B.,
red.; zd-va; MAKAGONOVA, I.A., tekhn.red.

[Combustion and carburetion in diesel engines; proceedings of the scientific and technical conference organized by the Engines Laboratory in June 1958] Sgoranie i smesseobrazovanie v dizeliakh; trudy nauchno-tekhnicheskoi konferentsii, provedennoi v iiune 1958 g. Laboratoriei dvigatelei. Moskva, 1960. 238 p.

(MIRA 14:2)

1. Akademiya nauk SSSR. Laboratoriya dvigateley. 2. Chlen-korrespondent AN SSSR (for Briling). 3. Laboratoriya dvigateley Akademii nauk SSSR (for all, except Gorshkov, Makagonova).

(Diesel engines)

41837

S/262/62/000/004/013/024 I014/I252

//,7/00 AUTHOR:

Sviridov, Yu. B.

TITLE:

The nature of ignition of atomized fuels from the diffusion and kinetics point of view

PERIODICAL:

Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1942, 52, abstract 42.4.309. In collection

"Sgorania i Smeseobrazovaniye v dizelyakh". M., AN SSSR, 1960, 98-112

TEXT: Non-uniform concentration of the charge promotes ignition. The basic governing process in ignition is the chemical transformation, but at high temperatures, reactions may be accelerated by the transfer of reacting particles from zone to zone. Hence, the transfer process (even molar transfer) can directly increase the rate of the chemical chain transformation. The hypothesis given explains the shift, in engine fuels (except for the simplest gaseous type), of ignition and flame propagation rate maxima towards somewhat enriched mixtures, $\alpha = 0.8-0.9$, due to acceleration of the initial and intermediate reactions in the latter; this hypothesis also explains certain ignition peculiarities in homogeneous charges. The existence of different ignition mechanisms, governed by the relationship between the intensities of reaction development and of mixing, permits understanding of the nature of different types of combustion with changes in the above relationship. If the process is limited by the chemical reaction, combustion is homogeneous; if by mixing it is a case of diffusive

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Card 1/2

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S/262/62/000/004/013/024 I014/I252

The nature of ignition...

combustion. When these rates are equal, it is a case of a special type of bulk combustion, in which the greater part of the chamber space (already chemically ready for inflammation) is occupied by the flame immediately on ignition. There are 6 figures.

[Abstracter's note: Complete translation.]

X

Card 2/2

23965 S/113/60/000/004/002/007 D249/D301

11.7000

Sviridov, Yu. B., Candidate of Technical Sciences, Shatrov, Ye.B. and Korsi, Ye.K.

AUTHORS:

Stereoscopic recording of fuel combustion processes

TITLE: in engines

Avtomobil'naya promyshlennost', no. 4, 1960, 14-16

TEXT: The authors mention the method of filming the combustion processes in engines by using high speed and ultra high speed cameras permitting 500,000 and more frames in a second to be produced. Experiments carried out in 1957,1959 disclosed that still better results were obtained when studying combustion processes when stereoscopic filming of the flame was applied. In this filming each frame appears in the form of a stereoscopic pair (two images) obtained from two different points of view (Ref. 2: B.T. Ivanov, Stereokinotekhnika, izd-vo "Iskusstvo", 1956) and (Ref. 3: V. Pitch, Stereophotographie, Halle (Saale), Photokinoverlag. Experiments with stereoscopic filming were carried out in the

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23965 S/113/60/000/004/002/007 D249/D301

Stereoscopic recording...

Laboratoriya dvigateley (Laboratory for Engines) of the AS USSR. Combustion processes were observed in a cylinder having a constant volume. The filming was done by an AEG camera permitting 16-80000 frames to be performed in a second. The recording was carried out through an optically transparent glass J_{K} -5 (LK-5), mounted in the rear cylinder cover, on a perforated film 35 mm wide, having a sensitivity of 200-250 units. In order to receive a double image on the film, the camera lens (F: 2; f = 75 mm) was provided with a special prismatic stereoscopic attachement, having a detachable basis of 65 mm. The distance between the camera and the object (rear plane of the glass) was 400 mm. The combustion chamber depth was 120 mm. The frame size for each stereoscopic pair was 18 x 12 mm. A diagram is given, showing how the place of the ignition nucleus formation is determined. As a rule, flat photographing gives an erroneous image of the volume of the burned out charge. When looking at only one frame, it may seem that 50% of the charge is burned out, while inspecting both images concurrently it becomes evident that only 20% of the volume have been seized by flame. The ignition nucleus are

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654130011-9"

23965 S/113/60/000/004/002/007 D249/D301

Stereoscopic recording...

actually located in different planes in the combustion chamber. Demonstrations of stereoscopic films on the screen are carried out with a tenfold magnification. The spectator is provided with two analyzers (spectacles); one of them (the left hand analyzer) absorbs the rays polarized in the horizontal plane, while the other absorbs the rays that are polarized in the vertical plane. Inspection of these films has shown that the stereoscopic method provides a picture demonstrating combustion processes, indicating the places of ignition nucleus appearance, showing the shape of flame and the volumetric development of combustion. Stereescopic recording permits research of fuel dispersion, formation of mixtures and hydrodynamics. For such research an apparatus is necessary which would permit photographing in passing light. For this purpose a combustion chamber with two transparent glasses can be used. (Ref. 5: I.I. Gershman, and M.N. Kukharev, "Avtomobil'naya i traktornaya promyshlennost'", no. 2, 1956); (Ref. 7: B.S. Stechkin, M.D. Anashev, Trudy laboratoriyi dvigateley, AN SSSR, vyp. III, 1957. There are 5 figures and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Laboratoriya dvigateley AN SSSR (Engine laboratory, AS USSR).

SVIRIDOV, Yu.B.; ZUYEV, B.A.

Investiating the operation of a flame-ignition engine with air fuel atomization into the precombustion chamber. Trudy Lab.dvig. (NIRA 14:3) no.5:94-110 60. (NIRA 14:3)

(Gas and oil engines--Testing)

T. 19358-63 EPA/EPR/EPF(c)/EWT(m)/BDS/ES(s)-2 AFFTC/APGC/SSD Paa-4/

Ps-L/Pr-L/Pt-L WW/JW/MN ACCESSION NR: AR3005023 s/0273/63/000/006/0032/0032 34/B

SOURCE: RZh. Dvigateli vnutrennego sgoraniya, Abs. 6.39.264

AUTHOR: Sviridov, Yu. B.

TITLE: Mechanism of atomized fuel combustion

CITED SOURCE: Tr. Khar'kovsk. in-ta inzh. zh.-d. transp., vy*p. 46, 1961, 12-29

TOPIC TAGS: fuel combustion, atomized fuel combustion, ignition

TRANSIATION: The author describes experiments performed in a diesel bomb which show that the processes of ignition and combustion of atomized fuels have a complex and nonhomogeneous character determined by the development of physical and chemical processes. Three types of ignition and three types of combustion were discerned; the determining effect of the ignition process on the burning of atomized fuel was analyzed.

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SVIRIDOV, Yu.B.; SHATROV, Ye.V.

Application of high-speed stereoscopic cinematographic recording in the analysis of combustion processes. Usp. nauch.fot 9:210-212 164. (MIRA 18:11)

SVIRIDOV, Yu.I., inzh.

Question on the method of measuring the brightness of luminaires. Svetotekhnika 5 no.8:18-20 Ag 159. (MIRA 13:2)

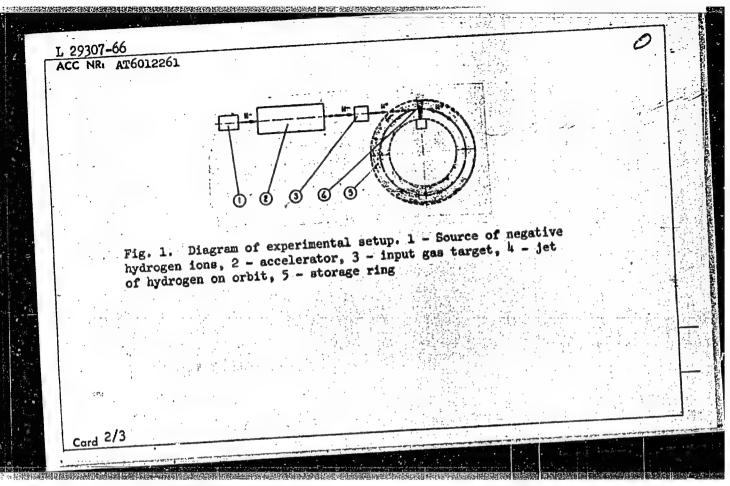
1. Vsesoyuznyy svetotekhnicheskiy institut.
(Electric lighting)

IVANOVA, N.S., kand.takhn.nauk; SVIRIDOV, Yu.I., inzh.

Some results of quality control im mass production. Svetotekhinika (MIRA 15:10)

l. Vsesoyuznyy svetotekhnicheskiy institut.
(Electric light fixtures)
(Electric equipment industry—Quality control)

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L 29307-56 EWT(m) IJP(c) GD SOURCE CODE: UR/0000/65/000/0001/0013
AUTHORS: Budker, G. I.; Dimov, G. I.; Popov, A. G.; Sviridov, Yu.K.; Sukhina, B. N.; Timoshin, I. Ya.
ORG: Institute of Nuclear Physics, Siberian Department AN SSSR B+/ (Institut yadernoy fiziki Sibirskogo otdeleniya AN SSSR)
TITLE: Experimental investigation of charge-exchange injection of protons in annular accelerators and storage rings
SOURCE: AN SSSR. Sibirskoye otdeleniye. <u>Institut vadernov fiziki.</u> Doklady, 1965. Eksperimental noye issledovaniye perezaryadnoy inzhektsii protonov v kol tsevyyee uskoriteli i nakopiteli, 1-13
TOPIC TAGS: charge exchange, proton accelerator, energy scattering, circular accelerator
ABSTRACT: The authors describe experiments on the accumulation of protons in an annular track by means of a charge exchange (Fig. 1). A beam of atoms or negative ions of hydrogen is introduced on a proton orbit in a magnetic field at the point where it crosses a hydrogen jet. The a magnetic field at the point where it crosses a hydrogen jet. The particles lose electrons in the jet and are accumulated on the orbit in particles lose electrons in the jet and are accumulated on the jets
particles lose electrons in the jet and are through the jets the form of protons. The protons passing many times through the jets lose energy and are scattered. In a constant magnetic field the time of Card 1/3



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ACC NR: AT6012261

accumulation is limited by the loss of the circulating protons to the inner wall of the storage ring. If the average energy loss is compensated for, the storage time is limited by elastic scattering and by the energy scatter of the protons. The experimental setup was described elsewhere (Mezhdunarodnaya konferentsiya po uskoritelyam Dubna, 1963, [International Conference on Accelerators], Moscow, 993 -- 996, 1964). Methods of measuring the proton current and the proton lifetime in the storage ring are briefly described. Various parts of the experimental setup are described in detail. The ion source was a modified electro-

static generator. Up to 10^2 protons could be accumulated in the betatron loop (current ~ 1 ampere). The injection efficiency was close to 100%. Hydrogen and carbon dioxide were used for the input targets, with optimal thickness 2.5×10^{16} and 3×10^{15} mol/cm². An accelerating voltage of 200 v was applied in pulses of 500 μ sec duration, so that accumulation for 2500 revolutions was possible. The loop current increased approximately linearly to 300 ka. The various sources of losses are briefly analyzed. Orig. art. has: 8 figures and 7 formulas.

SUB CODE: 20/ ORIG REF: 001/ OTH REF: 001

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IJP(c) EWT(m) SOURCE CODE: UR/0089/65/019/006/0507/0510 L 25774-66 AP6016378 ACC NR AUTHOR: Budker, G. I.; Dimov, G. I.; Popov, A. G.; Swiridov, Yu. K.; Sukhina, B. N.; Timoshin, I. Ya. ORG: none TITIE: Experiments with charge exchange injection of protons in a storage ring SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 507-510. TOPIC TAGS: Van de Graaff accelerator, proton, hydrogen ion ABSTRACT: Negative hydrogen ions were extracted from a high frequency source and were accelerated in a Van de Graaff machine/to 12 µamp. This beam then struck a neutralizing gas target of hydrogen or carbon dioxide having an optimum thickness of 2.5 X 1016 or 3 X 1015 molecules/cm² respectively. The resulting beam of neutral hydrogen atoms then struck a jet of hydrogen having a thickness of ~1017 atoms/cm². The hydrogen jet was directed along a radius from the center of a storage ring with an aperture of 8 X 4 cm and an orbital radius of 42 cm. The particle losses did not exceed a few percent with injections up to 1500 revolutions. The orbital current increased linearly for the first 100 revolutions and remained constant for ~150 revolutions. During this period the orbital radius of the beam decreased and then struck the internal hydrogen stream. Thus the injection efficiency was close to 100%. These preliminary results indicate that it is possible to accumulate a proton current that is limited only by the space charge. Orig. art. has: 5 figures. NA SUB CODE: 20 / SUBM DATE: none

SVIRIDOV, Yu.P.; BLOSHTEYN, Ye.A.

CONTROL OF THE PROPERTY OF THE

"Fundamentals of the design and manufacture of plastic parts in the automobile industry" by G.A. Malyshev, A.N. Ezerskii. Reviewed by IU.P. Sviridov, E.A. Bloshtein. Avt. prom. 30 no.8:48 Ag '64 (MIRA 17:11)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti.

S/089/60/008/06/17/021 B006/B063 82316

21,6300

Svintsev, Yu. V. AUTHOR:

TITLE:

New Data on the Concentration of c^{14} in the Atmosphere

Atomnaya energiya, 1960, Vol. 8, No. 6, pp. 573-575 PERIODICAL:

TEXT: The neutrons released by the explosion of an A-bomb interact with atmospheric nitrogen $(7N^{14} + 0^{n^1} \rightarrow 6C^{14} + 1H^1)$, whereby the pure beta emitter C14 with a half-life of 5,600 years is produced. The concentration of \mathbf{C}^{14} in the atmosphere has steadily increased since 1953. The dangerous effect of C^{14} is due to the development of mutants. Estimates by 0. I. Leypunskiy (Ref. 1) have shown that 49,000 people will be genetically damaged by the explosion of an H-bomb of 10 megatons, and 41,000 people by an ordinary A-bomb. In the following, megations, and 41,000 people by an oldinary a some. In the lorgonals, the author gives the results of American measurements (Refs. 5-7), and a diagram illustrates the rising concentration of C14 in the atmosphere

Card 1/2

CIA-RDP86-00513R001654130011-9" APPROVED FOR RELEASE: 08/31/2001

New Data on the Concentration of c^{14} in the Atmosphere

S/089/60/008/06/17/021 B006/B063 82316

of the Northern Hemisphere between 1953 and 1959. In the past three years, it has risen by about 5 per cent. The data given next was taken from Western publications, and the most important results are compiled in a Table. It lists the number of C¹⁴ atoms which accumulated until March, 1958 in the various parts of the earth and the atmosphere (as a result of A-bomb tests):

	Troposphere	Biosphere	Oceans	Stratosphere	m . 4 . 9
Minimum	3.6	0.2			Total
Probable Value			0.6	0.7	5•1
	3.6	0.2	1.0	7.0	11.8
Maximum	3.6	0.2	1.5	28.5	27.8

These values are to be multiplied by 10^{27} . There are 1 figure, 1 table, and 14 references: 3 Soviet and 1 German.

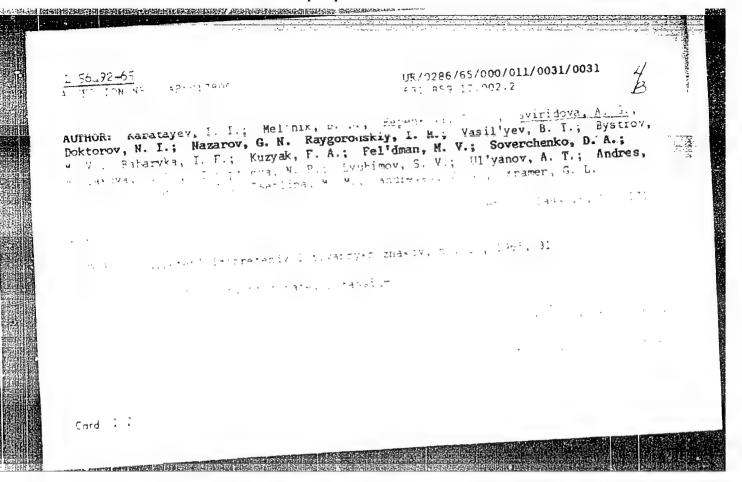
4

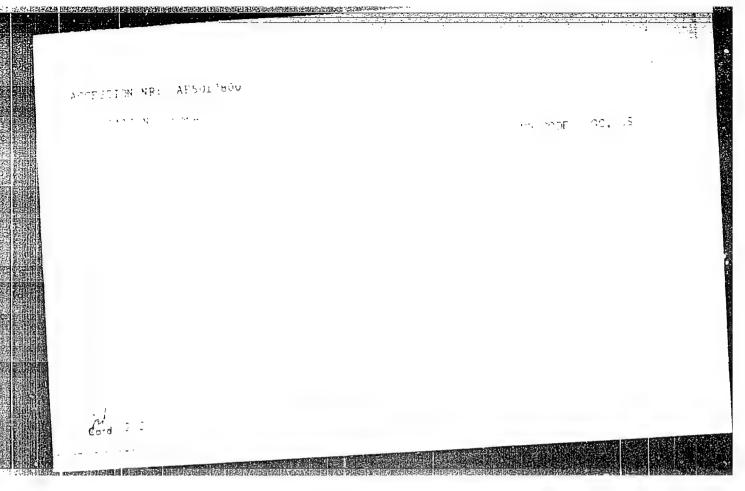
Card 2/2

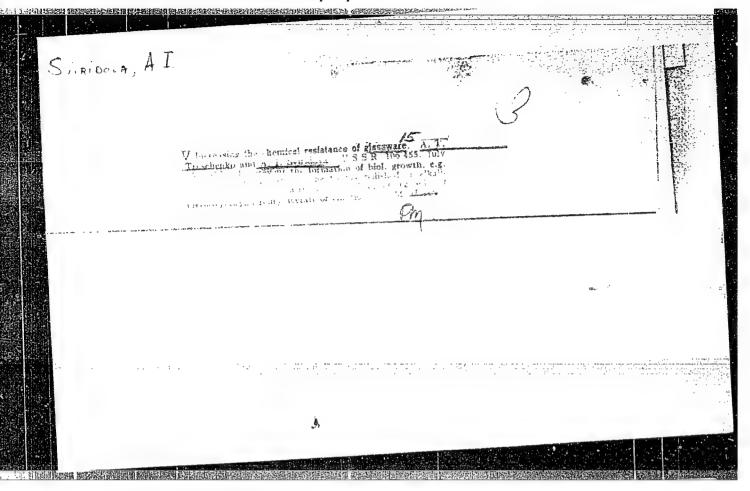
ARTAMOROV, Dritriy Semenovich; LUPICHEV, Mikolai Pavlovich, redaktor;
SHRONTN, L.Ya., retsenzent; SYIRIDOVA, A.A., retsenzent;
VINOGRADOVA, N.M., redaktor; RASMATA, A.K., tekhnicheskiy
redaktor.

[Mamusl for oil barge skippers] Posobie shkiperu nefténalivnoi
barzhi. Izd. 2-oe, perer. i dop. Moskva, Izd-vo "Bechnoi
transport," 1955. 182 p. [Microfilm] (MLRA 9:1)

(Tank vessels) (Fetroleum-Transportation)







S/080/62/035/002/005/022 D204/D302

AUTHORS:

Sviridova, A. I. and Suykovskaya, N. B.

TITLE:

Properties of ZrCl4 and ThCl4 solutions in ethyl al-

cohol

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 280-285

TEXT: Solutions containing 0.02 - 2.0 g moles ZrCl₄ and 0.5 - 1.5 g moles ThCl₄/l EtOH were studied in view of their practical and theoretical interest. The effects of concentration on the stability, acidity, refractive indices and specific and molar conductivities were investigated. The acidity, determined by titration with ties were investigated. The acidity, determined by titration with alc. KOH increased almost linearly with concentration, except for a positively curved portion between 0.8 and 0.9 g mole chloride a positively curved portion between 0.8 and 0.9 g mole chloride milar increases of the refractive index and specific conductivity milar increases of the refractive index and specific conductivity were observed when the concentrations were increased, with a curved portion and a maximum respectively at 0.8 - 1.0 g mole chloride/l₉ Card 1/2

s/080/62/035/002/005/022 D204/D302

Properties of ZrCl₄ ...

while the molar conductivity fell off with concentration in the usual manner. No change in any of these properties was observed, for a given concentration, over 1 year. The data are presented graphically and in tabular form. Specific conductivity was ascribed chiefly to the presence of HCl and it is considered that ZrCl4 dissociates to a greater extent in EtOH than ThCl4. It was found that homogeneous, transparent oxide films could be obtained from solunomogeneous, stansparent of the formations of optimum acidity. Excess acidity which hinders film formations of optimum acidity. tion was reduced by neutralization with metallic Na or K. The existence of ZrCl2 (OEt)2 was established. There are 4 figures, 4 tables and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The tables and / references: 4 Soviet-bloc and) non-Soviet-bloc. The references to the English-language publications read as follows: R. S. Hansen, K. Gunnar, A. Jacobs and C. H. Simmons, J. Am. Chem. Soc., 72, 5043, (1950); D. C. Bradley, F. M. Abd el Halim and W. Soc., 72, 5043, (1950); D. C. Bradley, I. M. El-Aggan, D. C. Wardlaw, J. Chem. Soc., 12, 3450, (1950); A. M. El-Aggan, D. C. Bradley and W. Wardlaw, ibid., 12, 4643 (1958). SUBMITTED: October 15, 1961 Card 2/2

。 1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年

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S/051/62/013/003/009/012 E202/E435

AUTHOR:

24 3750

Optical properties and structure of zirconia films

PERIODICAL: Optika i spektroskopiya, v.13, no.3, 1962, 425-428

Data on refractive index of zirconia and the porosity, transparency and crystalline structure of its films obtained by hydrolysis of zirconium tetrachloride and disubstituted ester of o-zirconic acid are presented as a result of investigating such The films were films 0.1 to 1 μ thick, deposited on fuzed quartz. subjected to various heat treatment including heating up to 800°C and their various modifications (amorphous, cubic, monoclinic and mixed) were identified by means of X-ray diffraction. thickness and refractive index were determined from the magnitude and position of the maximum on the spectral reflection curve of (SF-4) with a special attachment giving + 1.5 to 2% accuracy was quartz coated with zirconia films. The tables given summarize the effect of temperature on the refractive index, porosity, crystalline used for this purpose. It was concluded that in structure and limits of transparency. Card 1/2

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Optical properties and ...

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the temperature range between 120 and 130°C, the disappearance of the residual water and alcohol leads to the strengthening of the film, gradual increase of the refractive index and reduction of porosity. The film heated up to 300°C was amorphous and transparent to 280 - 290 mµ at the total optical thickness of 8400 Å. Within the 300 to 400°C interval the thickness of the film decreased rapidly, the refractive index increased and so also did the radius of the pores. Heating above 300°C caused crystallization while the refractive index and porosity remained substantially constant. Crystallinity lowered transparency to the shortwave component by 12 to 17%. There are 2 figures and 2 tables.

SUBMITTED: July 7, 1961

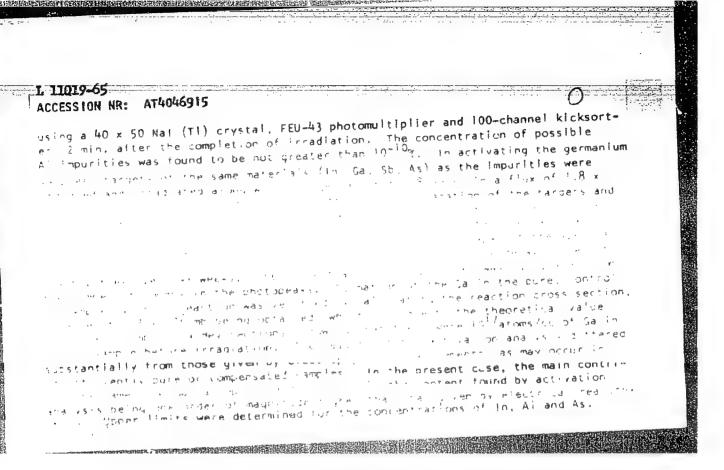
Card 2/2

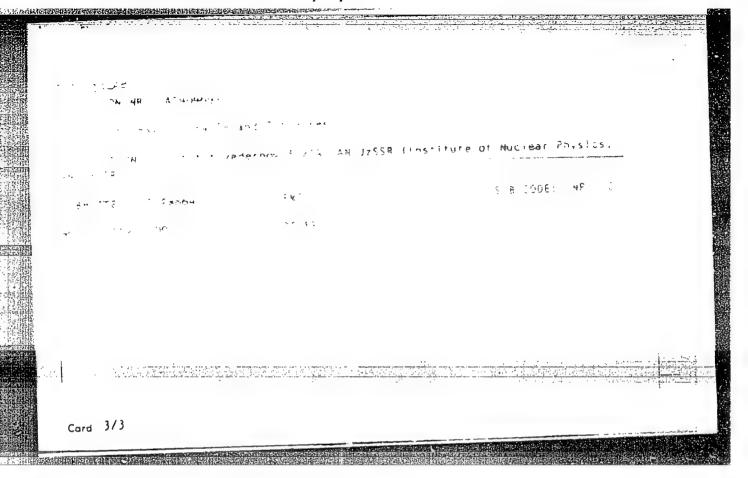
LOBANOV, Ye.M.; ZVYAGIN, V.I.; KIST, A.A.; ZVEREV, B.P.; SVIRIDOVA, A.I.; MOSKOVTSEVA, G.A.

Determination of manganese in silicon by the radioactivation method. Zhur. anal. khim. 18 no.11:1349-1355 N '63. (MIRA 17:1)

1. Institut yadernoy fiziki AN UzSSR, Tashkent.

DIAAP/IJP(c)/SSD/AFWI/ESD(gs) JD/MLK TWT 1 1 / SHIP (b) \$/0000/64/000/060/00/7/008} ACCESSION NE: AT4046915 ALTHOR: Lobanov, Ye. M.; Zvyagin, V. I.; Kist, A. A.; Sviridova, A. I.; Yevseyenko, YJ., Moskovtseva, G. A. Determination of impurities in a single crystal of germanium by the method of altivation analys sill the opposite effektive a condenashment, 125-vo The Committee of the Co TOPIC TAGS: germanlum, germanlum crystal, semiconductor purity, activation analy-Nauka JZSSR, 30%. s s, neutron bombardment, gallium determination ABSTRACT. The author considers the use of activation analysis of germanium Same es to verify a eutrophysical measurements indicating an almost compensated acceptor concentrar on of 4 x 1015ar xms/cc. A parallel investigation of germanium containing less than 1010 atoms/cc 21 ye and a read to correct for Ga formed by the (n,p) reaction with fast neutrons, and a combination of radiochemical and of the (n.p.) reaction with rast neutrons, and a commitment of restremental and properties and selection with rast neutrons, and a commitment of restremental and properties. The sample was irradiated properties and analysis was used to interpret the results. The sample was irradiated properties in a reactor flux of 19 x 10 2 n/cm2 sec, etched with acid for 10 2 n/cm2 sec, etched min., and the **spectrum taken with a single-crystal scintillation spectrometer, Cord i/3

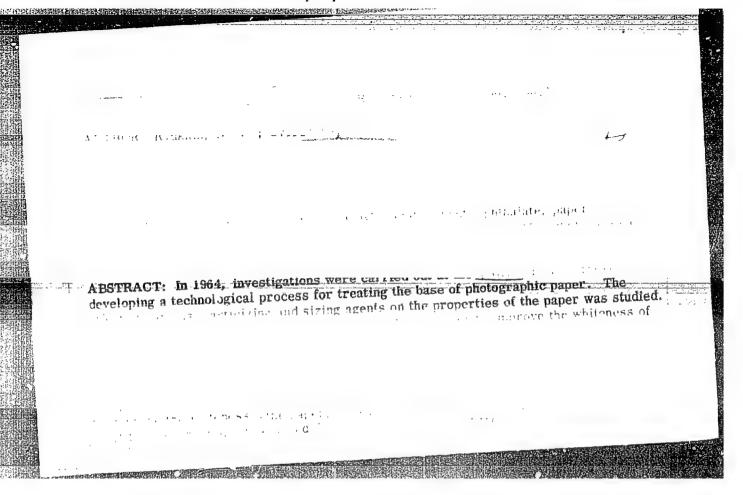


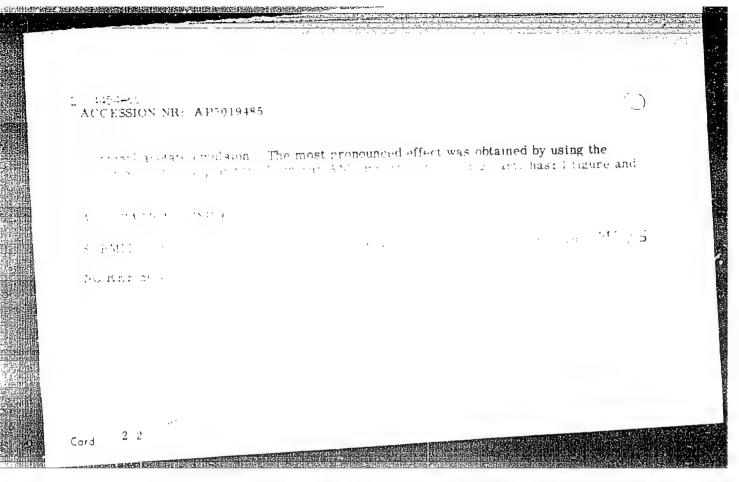


RYUKHIN, N.V.; BARANOVA, V.N.; SVIRIDOVA, A.I.

Possibilities of improving the whiteness of paper. Bum. prom. no. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut tsellyulozno-bumazhnoy promyshlennosti.





SLEFUSHKIN, A.N.; SVIRIDOVA, A.M.; KETILADZE, Ye.S.

Prospects for using serological methods for detecting the role of streptococcal and staphylococcal infections in the etiology of acute respiratory diseases and complications of influenza. Zhur. mikrobiol., epid. i immun. 41 no.4888-93 Ap *64. (MIRA 18:4)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

KORZHUYEV, P.A.; KRUGIOVA, G.V.; SVIRIDOVA, A.N.

Some ecological and physiological characteristics of reptiles [with summary in English]. Zool. zhur. 36 no.2:246-259 F '57. (MIRA 10:6)

1. Institut morfologii zhivobnykh Akademii nauk SSSR.

(Reptiles)

KORNILOV, G.G.; SVIRIDOVA, A.S.; YABLONSKIY, V.S. [deceased]

Estimating the head losses in the motion of gas-liquid mixtures. Trudy NIITransneft' no.3:35-41 '64.

Experimental investigation of the motion of gas-liquid mixtures through pipelines. Ibid.:42-57 (MIRA 18:2)

23764

S/190/61/003/006/007/019 B110/B216

15.8116

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Nudel man, Z. N., Sviridova, A. V., Novikov, A. S.

TITLE:

AUTHORS:

Synthesis of linear alumosiloxane polymers by silanol

condensation

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 6, 1961, 841-845

TEXT: Since no method has been described for the preparation of linear metallosilexanes of preset structure, the authors tried to synthesize these polymers by applying silanol condensation (Ref. 1: Kauchuk i rezina, 1960, No 5, 17). This condensation takes place on mixing organosilicon compounds containing the silanol group Si-OH with alkoxy derivatives of metals, organometallic groups or silicon (e.g. aluminum alcoholates, dialkoxy derivatives of the monoacetylacetonate, other aluminum complexes, alkoxy derivatives of titanium, tin and iron, etc.). Separation of the alcohol and formation of the metallosiloxane bond take place under very mild conditions according to the following scheme:

 $Si = 0 \cdot M \longrightarrow Si = 0 \cdot M \longrightarrow Si = 0 - M + ROH$. For this reaction the authors

Card 1/7

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Synthesis of linear alumosiloxane...

properties of these modified alumosiloxane derivatives (MAS), which are modified by aluminum links. The time required for the reaction is directly proportional to the molecular weight of the polydimethylsiloxane derivative used. A comparison of the viscosities of MAS (Table 1) in toluene and solutions of the initial siloxane indicates the increased molecular dimensions of MAS. Their greater hardness is due to the formation of donor-acceptor bonds between the aluminum groups of different polymer molecules and to multiple coordination of the aluminum atom. The oxygen atom in the alkoxy group of the acetoacetic ester has the greatest electron density and is able to form complexes. For this reason the ethyl and octyl esters of acetoacetic acid, having different complexability were used. Hardness was determined thermomechanically according to Kargin in the temperature range -60°C to 200°C (at a rate of 4°C per 10 min). The extent of intermolecular interaction is mainly determined by the relative number of aluminum links in the chain. The properties due to the aluminum links are more marked if the initial siloxane is lower-molecular. The Al content of MAS depends only on the molecular weight of the initial siloxane and not on the ratio aluminum complex/siloxane (26,300 = 1.99 % Al; 3160 = 3.61 % Al). The greater hardness of the second Card 3/7

23764

S/190/61/003/006/007/019 B110/B216

Synthesis of linear alumosiloxane...

polymer is due to its higher Al content and the numerous Al links. The above-stated composition is confirmed by the findings that the polymers are completely soluble in benzene and toluene, flow under pressure, melt on heating and sinter at high temperatures. The residual compression is also characteristic of structureless polymers. This is corroborated by the viscosity (Table !) and the presence of Al in these polymers. The viscosity (Table !) and the presence of Al in these polymers. Acetylacetone forms very stable acetylacetonates with the Al of many Acetylacetone forms very stable acetylacetonates with the Al of many aluminum compounds, splitting the Si-O-Al bond. On treating MAS with aluminum compounds, splitting the Si-O-Al bond. On treating MAS with excess acetylacetone at room temperature (Table 2), the initial polydinexcess acetylacetone at room temperature (Table 2), the initial polydinethylsiloxanes were regenerated, which shows that condensation did not take place; Si-OH+HO-Si Al Si-O-Si + H2O. Heating of MAS to \$\geq 200^{O}C\$ leads to reversible softening, which together with its resistance to pyridine, is not in agreement with the presence of a large number of \$\frac{H}{Al} \frac{Al}{Al} \frac{Al}{Al

This method can also be applied in the synthesis of linear polymers modified by titanium, tin, iron, etc., in the given order, their properties

Card 4/7

23761

Synthesis of linear alumosiloxane...

S/190/61/003/006/007/019 B110/B216

depending on the metal alkoxide used and its ratio to the polysiloxane. There are 1 figure, 2 tables, and 3 references: 2 Soviet-bloc and

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti

(Scientific Research Institute of Rubber Industry)

SUBMITTED: July 25, 1960

Table 1: Viscosity of toluene solutions of MAS in initial polydimethylsiloxane derivatives. a) Mol·wt. of initial polydimethylsiloxanes; b) polydimethylsiloxane; c) concentration, g/100 ml; d) given rate; e) MAS; 1) viscosity at 20°C; 2) viscosity at 25°C.

Card 5/7

SHOSTAKOVSKIY, M.F.; PRIIEZHAYEVA, Ye.N.; SVIRIDOVA, A.V.

Polymerization of vinyl ethyl sulfone under the effect of free radical initiating agents. Dokl. AN SSSR 146 no.4:837-839 0 162. (MIRA 15:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo
AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).
(Sulfones) (Polymerization)
(Radicals (Chemistry))

SVIRIDOVA, A. Ye.

Rhinologic technique in optochiasmic arachnoiditis. Vest. otorinolar., Moskva 13 no.4:42-45 July-Aug 1951. (CIML 21:1)

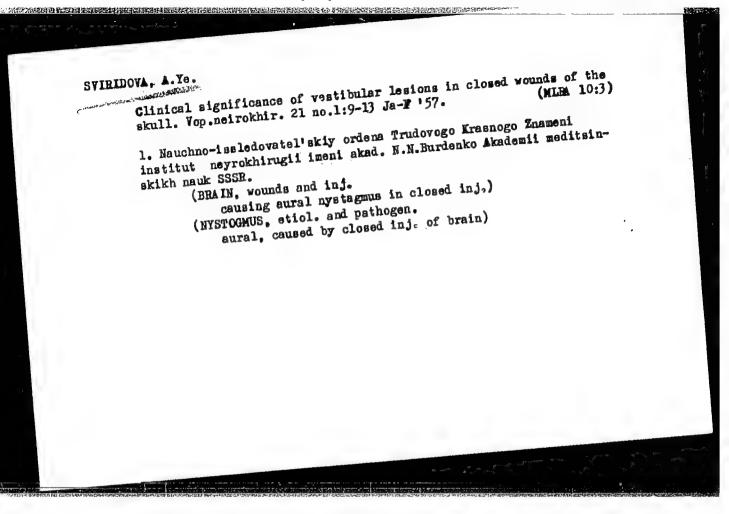
1. Candidate Medical Sciences. 2. Of the Otoneurological Division (Head — Prof. O. G. Ageyeva-Haykova), Institute of Neurosurgery imeni N. N. Burdenko of the Academy of Medical Sciences USSR (Director — Prof. B. G. Yegorov, Corresponding Member of the Academy of Medical Sciences USSR).

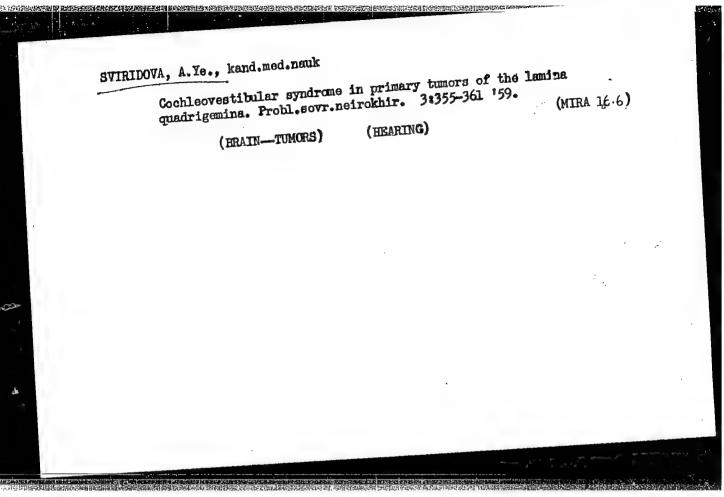
SVIRIDOVA, A.Ye.

Dynamics of spontaneous nystagmus in surgical therapy of hypertension. Vop. neirokhir. 19 no.1:24-27 Ja-F 155. (MLRA 8:2)

1. Iz otonevrologicheskogo kabineta Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni akad. N.N. Burdenko Akademii meditsinskikh nauk SSSR.

(ERAIN, neoplasms,
with intracranial compression with mystagmus, surg.)
(NYSTACHUS, etiology and pathogenesis,
intracranial compression in brain tumor & meningeal
tuberc., surg.)
(TUBERCULOSIS, MENINGHAL, complications,
mystagmus caused by intracranial compression, surg.)





KORNYANSKIY, G.P., prof.; SVIRIDOVA, A.Ye. (Moskva)

Myoclomus of muscles of the soft pelate, pharynx and larynx after surgical excision of tumors of the cerebellum and neurinomas of the acoustic nerve. Vop.neirokhir. no.4:24-29 '61. (MIRA 14:12)

1. Nauchno-issledovatel skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR. (LUSCLES—DISEASES) (CEREBELLUM—TUMORS) (ACOUSTIC NERVE—TUMORS)

SVIRIDOVA, A.Ye., kand.med.nauk

Cochlear vestibular syndrome in tumors of the cerebral aqueduct.

(MIRA 16:2)

Probl.sovr.neirokhir. 4:2/3-256 *62.

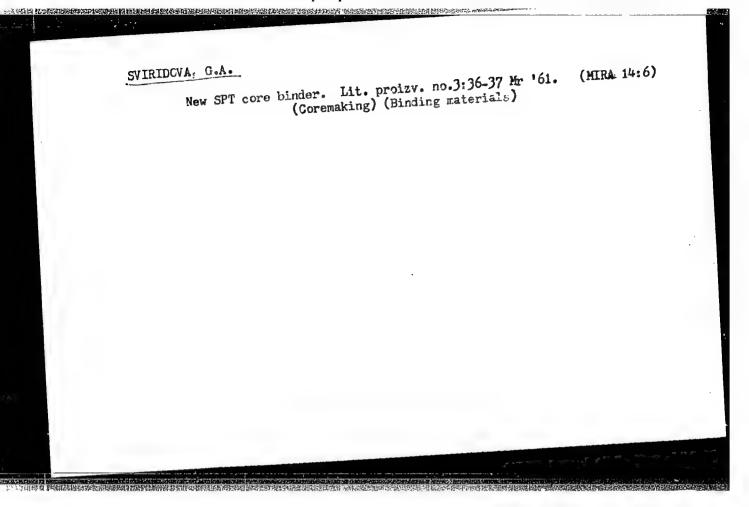
(HRAIN—TUMORS) (LAEVRINTH (EAR)—DISEASES)

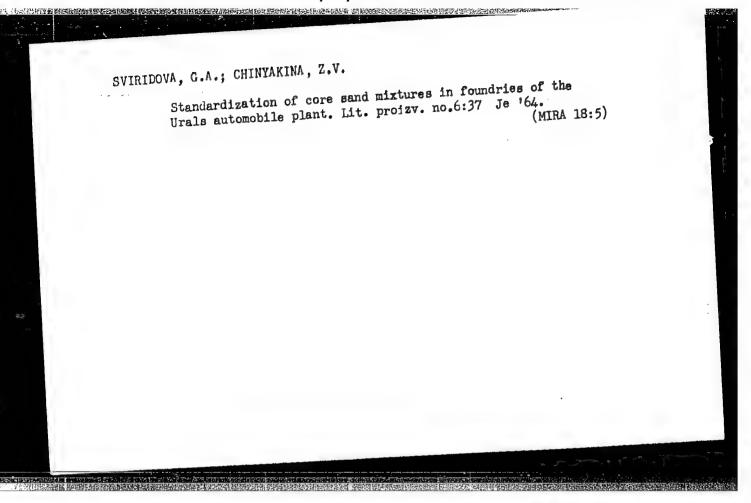
(HRAIN—TUMORS)

ZML'DIN, Boris Borisovich; MARGOLIN, V.A., redaktor; SVIRIDOVA, F.A., redaktor; HADMNKKAYA, A.A., tekhnicheskiy redaktor.

[Technical control in a factory producing coal briquets] Tekhnicheskii kontrol' na uglebriketnoi fabrike. Moskya, Ugletekhizdat, 1955. 39 p. (HERA 8:11)

(Briquets (Fuel))





SVIRIDOVA, I.K. Results of studies on nitrogen and mineral leaching from the tree crowns by rain. Dokl.AN SSSR 133 no.3:706-708

J1 160.

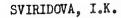
1. Voronezhskiy gosudarstvennyy zapovednik. Predstavleno akad. I.V. Tyurinym. (Plants, Effect of water on) (Trees)

CIA-RDP86-00513R001654130011-9" APPROVED FOR RELEASE: 08/31/2001

SVIRIDOVA, I.K.

Dynamics of nutrients in soils of aspen forests in the Voronezh Preserve. Trudy Vor. gos. zap. no.13:31-37 '61. (MIRA 16:8)

(Voronezh Preserve...Aspen)
(Voronezh Preserve...Forest soils)



Effect of improvement cuttings on the moisture supply in soils of aspen forests. Trudy Vor. gos. zap. no.13:113-139 '61. (MIRA 16:8)

(Forest management Voronezh Preserve—Soil moisture)
(Voronezh Preserve—Aspen)

SVIRIDOVA, I.K.; FOPOVA, M.Ye. Studying the balance of perched water and the translocation of

Studying the balance of perched water and the standard profile. nitrogen and ash elements beyond the limits of the soil profile. (MIRA 16:8) Trudy Vor. gos. zap. no.13:165-173 '61.

(Voronezh Preserve-Runoff) (Voronezh Preserve-Forest soils)

CIA-RDP86-00513R001654130011-9" APPROVED FOR RELEASE: 08/31/2001

ZHIROMSKAYA, I.P., nauchnyy sotrudnik; KALMYKOVA, A.I., nauchnyy sotrudnik; SVIRIDOVA, I.N., nauchnyy sotrudnik

"History of Moscow," Vols. 1-6. Reviewed by I.P. Zhiromskaia, A.I.Kalmykova and I.N. Sviridova. Vest. AN SSSR 31 no.10:144-149 (MIRA 14:9) 0 '61.

1. Muzey istorii i rekonstruktsii Moskvy. (Moscow--History)

VINOKURENKOVA, A.I., dotsent; BUDAKOVA, R.S.; SVIRIDOVA, I.V.; MARKOVA, A.I.;

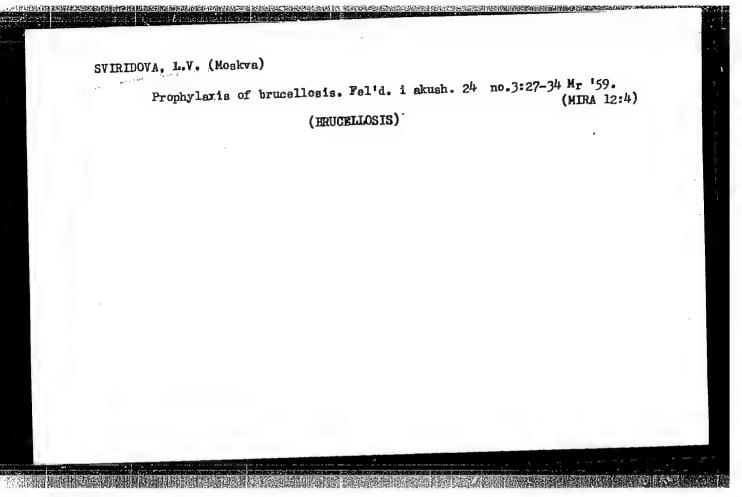
ROMANOVA, A.G.

[Treatment of cervical erosion with needle punctures according to Vinokurenkova's method. Sov.med. 21 no.2:54-57 F '57. (MLRA 10:6)

1. Iz kafedry skusherstva i ginekologii (zav. - prof. V.I.Zdravomyslov) Stavropol'skogo meditsinskogo instituta.

(GERVIK, UTERINE, dis.

erosion, ther., multiple puncture with needle around eroded area)



SEKRETTA, Pavel Maksimovich; AYZINBUD, Yudif' Izrailevna; SVIRIDOVA, Larisa Valer'yanovna; KHRISTOV, L.N., red.; MATVEYEVA, M.M., tekhn. red.

[Organizing the work of city hygiene and epidemiology institutes] Organizatsiia raboty gorodskikh sanitarno-epidemiologicheskikh uchrezhdenii. Moskva, Medgiz, 1962. 102 p. (MIRA 15:3)

(PUBLIC HEALTH)

ZOR'KIN, Ya.M.: SVIRIDOVA, M. V.

Characteristics of the distribution of Mesozoic formations in the regions of the Dzharkaka, Karaulbazara, and Sarytasha oil and gas fields. Uzb. geol. zhur. 9 no.6:60-64 65 (MIRA 19:1)

1. Institut geologii i razvedki neftyanykh i gazovykh mestorozhdeniy Gosudarstvennogo geologicheskogo komiteta SSSR. Submitted March 27, 1965.

SOV/81-59-16-56923

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 137 (USSR) Kuranov, A.A., Sviridova, M.M. AUTHORS:

Determination of Palladium, Platinum, Gold, Lead, Bismuth, Antimony, Copper and Iron in Pure Silver and the Determination of Antimony, Bis-

muth, Lead and Iron in Silver-Copper Alloys TITLE:

V sb.: Materialy 1-go Ural'skogo soveshchaniya po spektroskopii, 1956. Sverdlovsk, Metallurgizdat, 1958, pp 85-89 PERIODICAL:

For analysis ready samples in the form of rods of 6 mm in diameter with butts of oval shape are used. The spectra are excited in an a-c arc dis-ABSTRACT:

charge at 12 a with an arc gap of 2 mm and are photographed with a big charge at 12 a with an arc gap or 2 mm and are photographed with a DIK
KS-55 spectrograph at an exposure of 120 sec ("spectral" plates type II and III); the slit breadth of the spectrograph is 0.03 mm in the analysis and III); the SIIT preadth of the spectrograph is 0.03 mm in the analysis of Ag-Cu-alloys. The calibrating graphs are plotted in the coordinates $\lg(I_1/I_f)$, versus $\lg C$ without the background allowance. The error of the analysis is 10 - 20%. The standard fine error of the analysis is 10 - 20%.

ground allowance. The error of the analysis is 10 - 20%. The standards ground allowance. The error of one analysis is 10 - 20%. The sometime are prepared by the fusion of the pure metals with the alloys with the introduction of corrections for the pure metals with the alloys with the

are prepared by the rusion of the pure metals with the alloys with the alloys

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28(5)

sov/32-25-5-43/56

AUTHORS:

Kuranov, A. A., Sviridova, M. M.

TITLE:

Synthetic Standard Samples for Spectrum Analysis of Silver (Sinteticheskiye etalony dlya spektral'nogo analiza serebra)

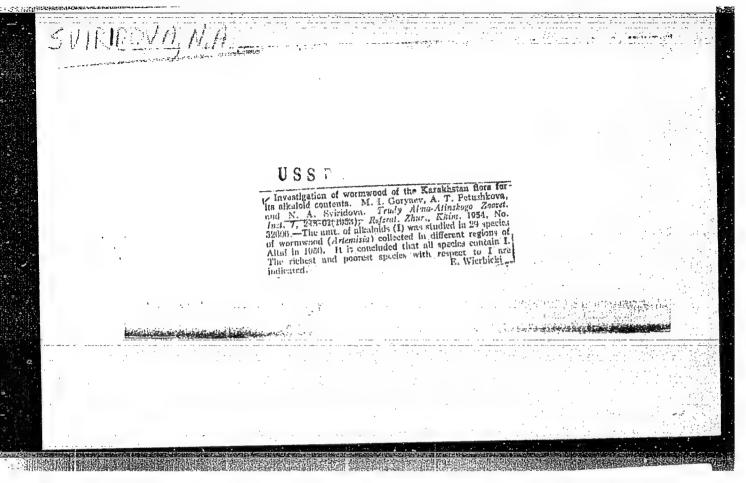
PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr. 5, pp 624-625 (USSR)

ABSTRACT:

The preparation of cast samples for the spectrum analysis of precious metals with a precisely determined quantity of admixtures of elements with high melting points 'as e.g. iridium or rhodium) is very difficult. In this case the use of metalloceramic samples is more convenient. In the present case samples of this type were prepared with Pt, Pd, Fe, Cu, Au, Al, Sb, Te, Pb, and Se in additional quantities of 10-5 to 10-2%. The metallic powders were separated into fractions by suspension, and only fractions with particle sizes of some ten micra were used. After mixing thoroughly, briquets were pressed (height: 25 mm, diameter: 20 mm) and fritted at 300° in hydrogen atmosphere; afterwards they were pressed again and repeatedly fritted at 600 and 800°. At the temperatures mentioned Bi, Se, Al, Pb, Sb, and Te melt; the mobility of the atoms of the other elements also rises considerably whereby rather homogeneous samples are

Card 1/2



88727

S/190/61/003/001/007/020 B119/B216

15.9205

AUTHORS: Borisov, S. N., Sviridova, N. G.

TITLE:

Polydimethyl-stannasiloxane derivatives

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 1, 1961, 50-55

TEXT: The authors synthesized polydimethyl-stannasiloxane derivatives with the aim of obtaining rubbery materials resistant to high temperatures, and studied the possibility of preparing rubbers based on these compounds, in analogy to polydimethyl germanasiloxane rubbers. Corresponding to the use of "oxa" and "aza" in the nomenclature of organosilicon compounds, "stanna" is used to designate the substitution of Si atoms by Sn atoms. SnCl₄, SnBr₄ and dimethyl dichloro silane (DDS) (used for the synthesis of polydimethyl siloxane rubber ChT(SkT)) were applied for the synthesis. The following compounds were prepared: Tetramethyl stannan (by the method described in Ref. 9), tetraethyl stannan (by the method described in Ref. 10), compounds of the type R2SnX2 (by the method of Refs. 9 and 11), diethyl dichloro stannan, dimethyl dibromo stannan and dimethyl

Card 1/3

88727

Polydimethyl-stannasiloxane derivatives

S/190/61/003/001/007/020 B119/B216

with a density greater than 1. Similarly prepared polydiethyl-stanna-dimethyl-siloxane with \$1\%\$ Sn is also resinous. Treatment of stannasiloxane (9-19\% Sn) solutions in octamethyl cyclotetrasiloxane with concentrated \$\text{H}_2SO_4\$ leads to separation into two phases, an upper oily layer containing no Sn and a salt-like precipitate consisting of polymer fragments of the formula \$R_2SnSO_4\$ and \$HOSnR_2SO_4H\$. This indicates chain rupture at the \$Si-O-Sn bonds. The preparation of rubbery substances was therefore not achieved. The admixture of stannasiloxane copolymers or stannoxanes to polydimethyl siloxane rubber SKT does not improve the vulcanizates. Among other publications, the ones by K. A. Andrianov, L. M. Khananashvili, and K. A. Kocheshkov are mentioned. There are 4 tables and 14 references: 9 Soviet-bloc and 5 non-Soviet-bloc.

ASSOCIATION: Vsesoyuznyy nauchro-issledovatel'skiy institut

sinteticheskogo kauchuka (All-Union Scientific Research

Institute of Synthetic Rubber)

STEMITTED:

May 30, 1960

Card 3/3

s/080/62/035/004/021/022 D205/D301

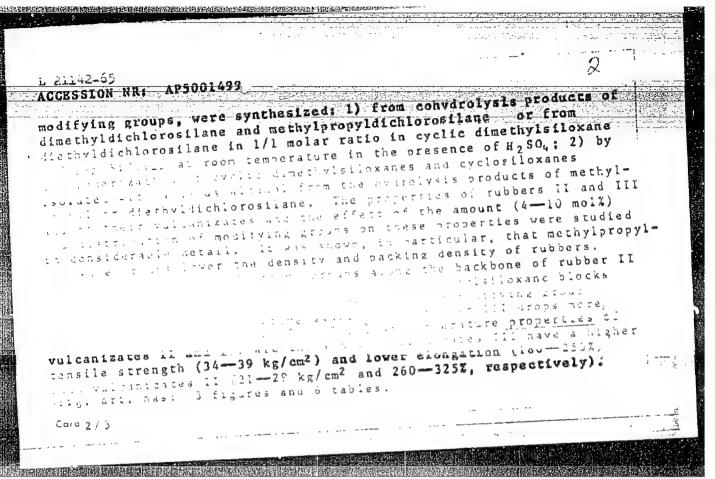
Borisov, S. N., Karlin, A. V., and Sviridova, N. G.

Simultaneous polymerization of octamethyl cyclotetrasiloxane and decamethyl pentacyclosiloxane

Zhurnal prikladnoy khimii, v. 35, no. 4, 1962, 917-919 TITLE:

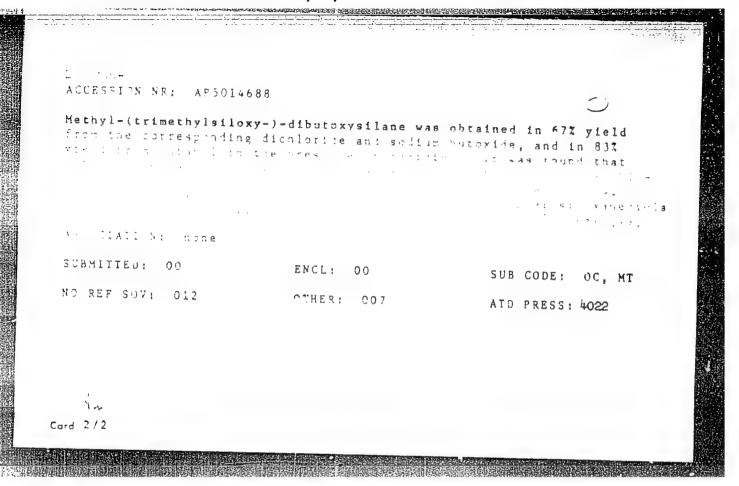
TEXT: In the production of the thermally stable polymethylsiloxane resin (XT (SKT) low-molecular cyclic dimethylsiloxanes are employed PERIODICAL: as the starting product. The influence of the starting products composition on the molecular weight and technological properties of the polymethyl disiloxane resin was not sufficiently investigated before. Polymerization of the binary mixtures of octamethyl cyclotetrasiloxane (M2-4) and decamethal cyclopentasiloxane (M2-5) taken in the weight ratios 90:10, 70:30, 50:50, 30:70, 10:90 was performed by stirring in the presence of (a) 2% W/W concentrated H₂SO₄ for 5 hours at room temperature with subsequent introduction of 1% W/W of H₂0; (b) 6% W/W aluminum sulfate dihydrate, taken as a 33% Card 1/3

\$/0138/64/000/012/0001/0007 Pc-4/Pr-4 1102-65 SIF(c)/SWP(j)/EdT(m) ALLESSION NR: AP5001499 AUTHOR: Borisov, S. N.; Kurlova, T. V.; Sviridova, N. G. TITLE: Synthesis and properties of isomeric polysiloxane rubbers 15 SOURCE: Kauchuk i rezina, no. 12, 1964, 1-7 TOPIC TAGS: dimethylsiloxane rubber, methylpropylsiloxane rubber, diethylsiloxane rubber, isomeric polymer, modified dimethylsiloxane ABSTRACT: The effect of structure on the low-temperature and other repressives of modified dimethylsiloxane rubber has been studied. For through the trainer (I) rubbers modified by replacing part The three wash, want or the with herebylar payls floxane groups very synthesized for the tirat class still entranerties were compared the forecast which were similarly modified with diethylrange of the contract of the c the position of the Si atom in the sillcon-calous gnain. Rubbers Il and III, which contained various amounts and distributions of Card 1/3 -



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Formy From RA SPE - LAP.] I mg/0191/55/000/006/0024/0028 ANTHOR: Borisov, S. N.; Sviridova, N. G. TITLE: Heterocondensation synthesis of polysiloxanes containing peripheral crimetaylaticxyl 6: 43 SOURCE: Plasticheskiye massy, no. 6, 1965, 24-28 TOPIC TAGS: polysiloxane, silicon polymer, elastomer, silicon rubber ABSTRACT: Interest in expanding the useful temperature range of polydimetrylellowanes led to attempts to modify them by replacing the Si-methyl grams with polar, unsaturated, and bulky groups such as +0-Si(Ch3/3: The preparation of silicon-containing elastomers with peripheral trialkylsiloxy groups may yield elastomers with Si(-0-); functions in the main chain, and with improved low-temperature properties resulting from disruption of the structure regularity by mobile Rysio groups. The reactions of a number of suitable compounds were investigated. Two new compounds were prepared. Mathyl-(trimethylsiloxy-)-diethoxysilane was obtained in 65% yield from the corresponding decalorise and it and in the presence of pyridine. Card 1/2



L 21784-66 EVT(m)/FVP(i) RM

ACC NR: AP6002864 (A) SOURCE CODE: UR/0286/65/000/024/0020/0020

AUTHORS: Borisov, S. N.; Syiridova, N. G.

ORG: none

TITLE: A method for obtaining acetoxysiloxanes. Class 12, No. 176893

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 20

TOPIC TAGS: siloxane, oligomer, organosilicon compound

ABSTRACT: This Author Certificate presents a preparative method for acetoxysiloxanes, based on the interaction of octamethylcyclotetrasiloxanes with acetic anhydride at high temperatures in the presence of a catalyst. To increase the yield and to obtain oligomers with 2 to 7 silicon atoms in the molecule, the reactants are mixed in the molar ratio of 1:2, and ferric chloride is used as the catalyst.

SUB CODE: 07/ SUBM DATE: 14Sep64

21(1),5(2)

sov/89-7-2-2/24

AUTHORS:

P. 在印度印度的影响。

Laskorin, B. N., Uliyanov, V. S., Sviridova, R. A.,

Arzhatkin, A. M., Yuzhin, A. I.

TITLE:

Sorption Methods of Separating Barium From Radium, Aluminum From Gallium, and Zirconium From Hafnium (Sorbtsionnyye metody razdeleniya bariya i radiya, alyuminiya galliya. tsirkoniya i

gafniya)

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 2, pp 110-116 (USSR)

ABSTRACT:

For the separation of elements chemically close to each other the chromatographical method was applied which due to its small capacity cannot be applied on an industrial scale. The efficiency of the method can be considerably increased by the use of an appropriate complexformer, which decreases the active concentration of the ions to be separated; this would mean in first approximation a decrease of the mass of the elements to be separated. The difference in the formation constants of the complex compounds increases the separation factor. It was established that for the separation of barium and radium citric acid, nitryltri- and ethylene diamine tetra acetic acid (EDTA) as eluating agents can be used with best results. The separation

Card 1/4

Sorption Methods of Separating Barium From Radium, Aluminum From Gallium, and Zirconium From Hafnium

SOV/89-7-2-2/24

factor was determined for 9 different kationites solved in different acids. Maximum separation factors were achieved under the following conditions: 1) use of hydrochloric acid. Kationite KU-2 with 8% latticelike polymerization, granulation 100-200 mesh, operational temperature 90°. The acid concentration is increased in the course of the experiment from 0.5 to 5.0 m . Eluation speed 2 cm/min. Barium and radium are collected in the upper section of the column. The height of the kationite saturated with barium is 10% of the kationite's total height. 2) Use of citric acid. Kationite Ku-2 granulation 100-200 mesh, 5% citric acid ammonia with a pH value of 8.0 . Separation up to 20% of the kationite's total height. Eluation speed 2 cm/sec. The exact results are given in a diagram. 3) Use of EDTA. By this method, described somewhat more in detail, it is possible to separate the whole radium from 100 kg of barium with a total volume of the kationite of 0.5 m³. Volume of the liquids 8 m³. The efficiency of the developed method is 50 kg/h per m2 of the cross section of the column. For the separation of 1 kg of barium 0.0% kg of EDTA, %.50 kg sodium lye and 1.2 kg hydrochloric acid is needed.

Card 2/4

Sorption Methods of Separating Barium From Radium, Aluminum From Gallium, and Zirconium From Hafnium

SOV/89-7-2-2/24

to obtain metal gallium. Efficiency of the developed installation: 50 kg/h gallium per m^2 of the cross section of the column. There are 7 figures, 6 tables, and 10 references.

SUBMITTED:

November 25, 1958

Card 4/4

Extracting properties of ...

S/830/62/000/001/009/012 E079/E192

of phases) of (2-ethylhexyl)phosphonic acids (used as 0.1M solutions in kerosene) were also determined. An addition to the organic phase of TBP or other neutral phosphoroorganic compounds or highmolecular alcohols sharply decreases the solubility of the extracting agents. It is concluded that the use of M2EHPA is uneconomic due to its high solubility losses (4 g/litre). Under industrial conditions monoalkylphosphoric acids with a larger radical (C_{12} and above) should be used. Total losses of D2EHPPA (80-100 mg/litre) and of D2EHPA - 20-35 mg/litre. On the addition of TBP or an alcohol, losses due to solubility can be reduced to 3-10 mg/litre and the consumption of the two reagents is mainly due to incomplete separation of phases. Studies of the extractive properties of the reagents indicated that: monoalkylphosphoric acids can be used for the separation of hexavalent uranium from phosphoric acid solutions with a concentration not exceeding 0.8M and sulphuric acid solutions with a concentration of up to 4M. On extraction of uranium from salts of the corresponding acids the distribution coefficients are considerably higher. uranium is better extractable than the hexavalent. Tetravalent Card 2/3

LASKORIN, B.N.; UL'YANOV, V.S.; SVIRIDOVA, R.A.

Extraction of molybdenum and tungsten from aqueous solutions.

Zhur.prikl.khim. 35 no.11:2409-2414 N '62.

(Mika 15:12)

(Molybdenum—Analysis)

(Tungsten—Analysis)

UL'YANOV, V.S.; SVIRIDOVA, R.A.

Dissociation, dimerization, and distribution of di(2-ethylhexyl)
phosphoric acid in the system octane- 0, 1 M solution of NaClO7E204.
Radiokhimia 5 no.4:419-424 163. (MIRA 16:10)

(Phosphoric acid) (Extraction (Chemistry))

ULITANOV, V.S.; SVIRIDOVA, R.A.

Dissociation, dimerization, and distribution of dibutylphosphoric.

dihexylchosphoric, and disctylphosphoric acids in the system

n-octane - 0.1 M NaClo₄ - HClo₄ solution, Radiokhimila 7 no.58538
(MTRI 18:10)

544 165.

Extraction of vanadium by trioctylamine and di-(2-ethylhexyl) phosphoric acid. Zhur. prikl. khim. 38 no.5:1133-1136 My '65. (MIRA 18:11)